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CLINICAL RECORD			PSY PROTOC		72 (JJE	(; ec)	
2 November 1963		22 November 1963 Assistant (4398 CDR "J" THOSHTON	2000(EST)4-	FALL AUTOPET		THLOG GOLY	, ,
NICAL DIAGNOSES (MALE	MO, HSH	LCOL PIERRE A. VI	HCZ,HC,USA	04 043 3	22)		
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AUTOPSY PROTOCO

REINIDY, JOHN P. RAVAL MEDICAL SCHOOL

CLINICAL SURGNARY:

was riding in an open car in a motorcade dur on 22 November 1963. The President was sittle Kennedy seated on the same seat : his left. President was Governor John B. C .olly of Te pat Mrs. Connolly. The vehicle s moving at into an underpass that leads to freeway rout Prosident was to deliver an aud.

According to available information the -eccased, President Job . . Kennedy. an official visit to :llns, Texas : in the right rear oc dth Mrs. itting directly in fro of the f Mrs. Kenne and directly in from slow rate of speed do an incline o the Dallas Trade ! ; wherethe

fell forward bleeding from the head. (C same nunfire.) According to newspaper re-Dob Jackson, a Dallas "Times Herald" Photos the shors and saw a rifle barrel disappearin. nearby Texas School Book Depository Building.

in looken a vincow on an upper liver to

Shortly following the wounding of the two men the car was driven to Parkland Hospital in Dallas. In the emergency room of that hospital the President was attended by Dr. Malcola Perry. Telephone communication with Dr. Porry on November 23, 1963 develops the following information relative to the observations made by Dr. Perry and procedures performed there prior to death.

Dr. Perry noted the massive wound of the head and a second much smaller wound of the lew anterior neck in approximately the midline. A tracheostomy was performed by extending the latter wound. At this point bloody air was noted bubbling from the wound and an injury to the right lateral wall of the traches was observed. Incisions were made in the upper anterior chost wall bilaterally to combat possible subcutameous emphysems. Intravanous infusions of blood and saline were begun and oxygen was administered. Despite those measures cardiac arrest occurred and closed chest cardiac asseage failed to re-establish cardiac action. The President was pronounced dead approximately thirty to forty minutes after receiving his wounds.

The remains were transported via the Presidential plane to Washington, D.C. and ubsequently to the Naval Medical School, National Naval Medical Center, Bethesda, Maryland for postmorten exemination.

GENERAL DESCRIPTION OF BODY:

The body is that of a muscular, well-. developed and well nourished adult Caucasian male measuring 725 inches and weighing approximately 170 pounds. There is beginning rigor mortis, minimal depositent liver mortis of the dorsum, and early algor mortis. The hair is reddish brown and abundant, the eyes and blue, the right pupil measuring 8 mm. in diameter, the left 4 mm. There is edems and ecchymosis of the inner canthus region of the left cyclid measuring approximately 1.5 cm. in greatest diameter. There is odena and ecchymosis diffusely over the right supra-orbital ridge with abnormal mobility of the underlying bone. (The remainder of the scalp will be described with the skull.)

There is classic blood on the external ears but otherwise the ears, parts, and mouth are essent may unremarkable. The each are a excellent repair and think is some pallore oral mucous membran--

thorax just above the upper border 5 the sca la there is a 7 x 4 m. wound. This wound is measured to: 14 cm. for the tip of the right and 14 cm. below the tip of the right mastoid ocess;

Si sted on the upper rig Osterior mater eval romion process

1. There is a large irregular defect of

proximately the level of the third and verse wound with widely gaping irresula wounds wil be further described below.)

1 in the low entr ock at cocoal rate.

. in the stock. nipple line are bilateral 2 cm. long recent subcutaneous tissue. The one on the left is ted 1. . ccphalad to the nipple and the one on the right 3 cm, cephalad to the mipple. There is no hemorrhage or ecohymosis associated with these wounds. A similar clean wound measuring 2 cm. in length is situated on the entero-lateral aspect of the left mid arm. Situated on the antero-lateral appect of each ankle is a recent 2 cm. transverse incision into the subcutaneous tissue.

There is an old well healed 8 cm. McBurney abdominal incision. Over the lumber spine in the midline is an old, well healed 15 cm, scar. Situated on the upper antero-lateral aspect of the right thich is an old, well healed 8 cm. scar.

MYSSILE DODDES+

the scale and skull on the right involving chiefly the parietal bone but extending somewhat into the temporal and occipital regions. In this region there is an actual absence of scalp and bone producing a defect which measures approximately 13 cm. in greatest diameter.

From the irregular margins of the above scale defect tears extend in stellate fashion into the more or less intact scale as follows:

- a. From the right inferior temporo-parietal margin anterior to the right ear to a point slightly above the tragus.
- b. From the anterior parietal margin anteriorly on the forehead to approximately 4 cm. above the right orbital ridge.
- c. From the left margin of the main defect across the midline entero-laterally for a distance of approximately 8 cm.
 - d. From the same starting point as c. 10 cm. postero-laterally.

Situated in the posterior scalp approximately 2.5 cm, laterally to the right and salicitly above the external oscipital protuberance is a lacerated wound measuring $15 \times 6 \text{ cm}$. In the underlying bose is a corresponding wound through the skull which encloses beyoing of the margins of the bone when viewed from the inner aspect of the skull.

lorge shall defect and exacting from it is incorrect being in tissue which on closs inspection proves to represent the major portion of the right cerebral hemisphera. At this point it is noted that the fair cerebrit is extensively locarated with disruption of the superior suggistal sinus.

Book replaction to the superior suggistal sinus.

Book replaction the scale multiple complete.

Book replaction the scale multiple complete.

fracture lines are seen to radiate from both the large defect or the vertex and the smaller would at the occiput. These vary greatly in length direction, the longest memouring approximately 19 m. These result in the production of numerous fragmants which vary in size from a few millianters to 10 cm. in greatest disaster.

fragments thus produced tex satisfactory verbal description and are better appreciated in photographs and reuntpenograms which are properties.

The brish is removed and preserved for

further study following formalin fixation.

Temms are three frequents of shall been which as appraise specimens from Dallas, and the state of the frequents of shall been which as appraise roughly approximate the distinctions of the large defect certains of an expect of the largest of these frequents is a portion of the certain of a roughly circular wound presumably of institution of the other aspect of the bone and is estimated to enter which exhibit the part of the other aspect of the bone and is estimated to measure of the part of the other aspect of the bone and is estimated to consider the particular of the part of

is that described above in the upper right posterior thorax. Beneath the wild there is occlymosis of subcurances tissue and musculature. The mischesh through the faction and musculature cannot be easily probed. The unamericant control region, that described by Dr. Naicoln Ferry of Ballas at the mischesh of crit was that described by Dr. Perry the wound measurement of united region, when the subcurance of the factor of the subcurance of the

these two wounds is in the apex (supra-clavicular portion) of the right pleural cavity. In this region there is contusion of the parie' .. pleurs and of the extreme apical portion of the right upper lohe of the lung. In both instances the diameter of contusion and eachymosis at the point of maximal involvement measures 5 cm. Both the visceral and parietal pleurs are intact overlying these areas of trauma.

INCISIONS:

The scalp wounds are extended in the coronal plane to examine the cranial content and the customary (Y) shaped incision is used to examine the body cavities.

THURACIC CAVITY:

The hony cage is unremarkable. The thoracic organs are in their normal positions and relationships and there is no increase in free pleural fluid. The above described area of contusion in the apical portion of the right pleural cavity is noted.

The pericardial cavity is smooth walled

LUNGS:

The lungs are of essentially similar appearance the right weighing 320 Gm., the loft 290 Gm. The lungs are well scrated with smooth glistening pleural surfaces and gray-pink color. A 5 cm, digmeter area of purplish red discoloration and increased firmness to palpation is situated in the apical portion of the right upper lobe. This corresponds to the similar area described in the overlying parietal pleura. Incision in this region reveals recent hemorrhage into pulmonary parenchyma.

HEART:

and contains approximately 10 cc. of strawcolored fluid. The heart is of essentially normal external contour and weighs 350 Cm. The pulmonary artery is opened in situ and no abnormalities are noted. The cardiac chambers contain moderate amounts of postmorten clotted blood. There are no gross abnormalities of the leaflets of any of the cardiac valves. The following are the circumferences of the cardiac valves; sortic 7.5 cm., pulmonic 7 cm., tricuspid 12 cm., mitral 11 cm. The myocardium is firm and reddish brown. The left ventricular myocardium averages 1.2 cm. in thickness, the right ventricular myocardium 0.4 cm. The coronary arteries are dissected and are of normal distribution and smooth walled and clastic throughout.

ABDOMINAL CAVITY:

positions and relationships and there is no increase in free peritoneal fluid. The verniform appendix is surgically absent and there are a few adhesions joining the region of the cecum to the ventral abdominal wall at the above described old abdominal incisional scar.

SKELETAL SYSTEM: abnormalizies.

Aside from the shove described skull wounds there are no significant gross skeletal

The abdominal organs are in their normal

PHOTOGRAPHY:

Black and white and color photographs depicting significant findings are exposed but not developed. These photographs were placed in the custody of Agent Roy H. . Kellerman of the U. S. Secret Service, who executed a receipt therefore (attached).

HODINGCHOON WIS:

Roent enourage are made of the entire bod .ately submitted three ... raced in the custody of framments of skull bone. These are devole;

Agent Roy H. Kellerman of the U. S. Secre. , who executed a receipt therefor

(uttached) . SIDZFARY:

Dased on the above observations it is our opinion that the deceased died as a rosult

of two perforating gunshot wounds inflicted by high velocity projectiles fired by a person or persons unknown. The projectiles were fired from a point behind and somewhat above the level of the deceased. The observations and available information do not permit a satisfactory cotinate as to the sequence of the two wounds.

The fatal missile entered the skull above and to the right of the external occipital protuberance. A portion of the projectile traversed the cranial cavity in a posterior-enterior direction (see lateral skull roomtgenograms) depositing minute particles along its path. A portion of the projectile made its cuit through the parietal bone on the right carrying with it portions of corobrum, simil and scalp. The two wounds of the skull combined with the force of the missile produced extensive fragmentation of the skull, laceration of the superior seggital sinus, and of the right cerebral hemisphere.

The other missile entered the right superior posterior thorax above the scapula and traversed the soft tissues of the supra-scapular and the supra-clavicular portions of the base of the right side of the neck. This missile produced contusions of the right spical parietal pleura and of the spical portion of the right upper lobe of the lung. The missile contused the strap muscles of the right side of the neck, damaged the traches and made its exit through the anterior surface of the neck. As far as can be ascertained this missile struck no bony structures in its path through the body.

In addition, it is our opinion that the wound of the shull produced such extensive damage to the brain as to preclude the possibility of the deceased surviving this injury.

A supplementary report will be submitted following more detailed examination of the brain and of microscopic sections. However, it is not anticipated that these examinations will naterially alter the findings.

J. ITAKES COR. MC. USM (497831) DR. MC, USE (489878)

PIERRE A. PIÑOZ LT COL, MC, USA (04-043-322)

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